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Premium

for

Quality

Wool

Tetramers of Intermediate Filaments

Produced for the CRC for Premium Quality Wool undergraduate program by; Kevin Ley, CSIRO Textile & Fibre Technology.

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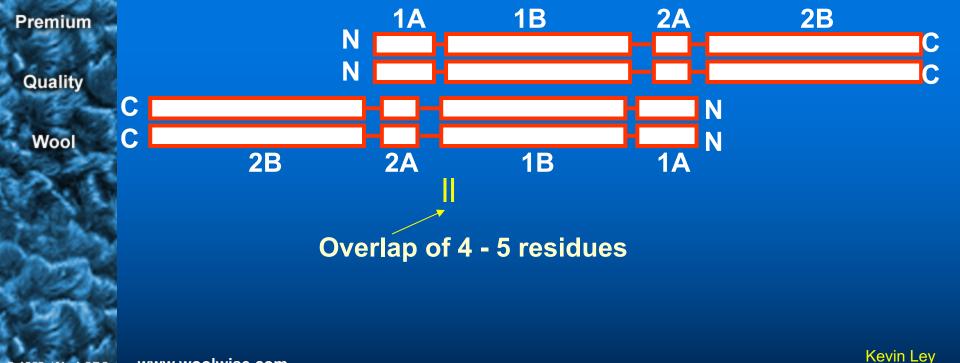
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Tetramers

 Staggered anti-parallel arrangement of 2 dimers

- 1B regions of the dimers are almost parallel

this maximises favourable ionic interactions

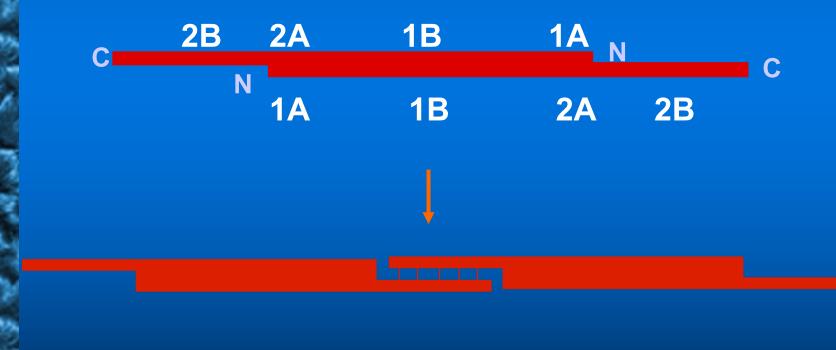


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Tetramers

- 2 tetramers join end to end
 - 2B regions overlap
 - disulfide bonding and favourable ionic interactions occur between overlap



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Exercise

- Diagram of the overlapping region of 2 tetramers of 8c-1 and 7c. Disulfide bonds are the dotted lines. Cysteines are the circles and arrows are the cysteine not present in 8a and 5 proteins.
- How many disulfide bonds are there in the overlapping region between proteins made up of 8a and 5 proteins?

